PART II – Quantification of Assessment Area (impact or mitigation)

(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number:	Assessment Area Name or Number:
SR 7 - Okeechobee Blvd to Northlake Blvd		FLUCFCS 6410
Impact or Mitigation	Assessment conducted by:	Assessment date:
Direct Impact N/CE MARSH	Scheda Ecological Associates	June 2008; May 2010

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

Berm North

	Optimal	Moderate	Minimal	Not Present
a. Quality and quantity of habitat support outside of AA.		X		
b. Invasive plant species.		X		
c. Wildlife access to and from AA (proximity and barriers).		X		
d. Downstream benefits provided to fish and wildlife.	X			
e. Adverse impacts to wildlife in AA from land uses outside of AA.		X		
f. Hydrologic connectivity (impediments and flow restrictions).	X			
g. Dependency of downstream habitats on quality or quantity of discharges.		X		
h. Protection of wetland functions provided by uplands (upland AAs only).				N/A

w/o pres or current: 8 | current: 0

Comments: Adjacent to the Pond Cypress Natural Area and Grassy Waters Preserve. Invasive exotics plant species are primarily limited to adjacent uplands and property limits. Roadways and fences limit access to wildlife to the west.

.500(6)(b)Water Environment (n/a for uplands)

	Optimal	Moderate	Minimal	Not Present
a. Appropriateness of water levels and flows.		X		
b. Reliability of water level indicators.	X			
c. Appropriatness of soil moisture.	X			
d. Flow rates / points of discharge.		X		
e. Fire frequency / severity.				X
f. Type of vegetation.	X			
g. Hydrologic stress of vegetation.		X		
h. Use by animals with hydrologic requirements.		X		
i. Plant community composition associated with water quality (i.e. plants tolerant of poor WQ).		X		
j. Quality fo standing water by observation (i.e. discoloration, turbidity).		X		
k. Water quality data for the type of community.			X	
l. Water depth, wave energy, and currents.		X		

w/o pres or current: 8/9 | current: 0

Comments: Evidence of water level indicators appear appropriate. No signs of inappropriate erosion. Appropriate understory. Vegetation zonation appropriate. Evidence of nutrient loading from adjacent properties.

.500(6)(c)Community Structure

X Vegetation

____ Benthic

____ Both

	Optimal	Moderate	Minimal	Not Present
a. Appropriate / desirable species	X			
b. Invasive / exotic plant species.	X			X
c. Regeneration / recruitment of native species.	X			
d. Age / size distribution.	X			
e. Complexity of coarse wooody vegetation (snags, dens, cavities, etc).		X		
f. Plants' condition	X			
g. Land management practices		X		
h. Topographic features (refugia, channels, hummocks)		X		
i. Submerged vegetation (only score if present)				N/A
j. Upland assessment area				N/A

w/o pres or current: 8/9 | current: 0

Comments: Diverse community of native vegetation. Invasive exotic vegetation present. Evidence of recruitment. Likely provides foraging habitat for waterfowl and other water dependant species.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	current
0.80	0.00

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = 0.80 x 26.31 = **21.05**

Delta = [with-current]
0.80

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART II – Quantification of Assessment Area (impact or mitigation)

(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number:	Assessment Area Name or Number:
SR 7 - Okeechobee Blvd to Northlake Blvd		FLUCFCS 6410
Impact or Mitigation	Assessment conducted by:	Assessment date:
Secondary Impact - 0-50 ft	Scheda Ecologiocal Associates	June 2008; May 2010

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

SAME IMPACT AFTER

	Optimal	Moderate	Minimal	Not Present
a. Quality and quantity of habitat support outside of AA.		X		
b. Invasive plant species.		X		
c. Wildlife access to and from AA (proximity and barriers).		X		
d. Downstream benefits provided to fish and wildlife.	X			
e. Adverse impacts to wildlife in AA from land uses outside of AA.		X		
f. Hydrologic connectivity (impediments and flow restrictions).	X			
g. Dependency of downstream habitats on quality or quantity of discharges.		X		
h. Protection of wetland functions provived by uplands (upland AAs only).				N/A

w/o pres or current: 8 / 7

Comments: Adjacent to the Pond Cypress Natural Area and Grassy Waters Preserve. Invasive exotics plant species are primarily limited to adjacent uplands and property limits. Roadways and fences limit access to wildlife to the west.

.500(6)(b)Water Environment (n/a for uplands)

	Optimal	Moderate	Minimal	Not Present
a. Appropriateness of water levels and flows.		X		
b. Reliability of water level indicators.	X			
c. Appropriatness of soil moisture.	X			
d. Flow rates / points of discharge.		X		
e. Fire frequency / severity.				X
f. Type of vegetation.	X			
g. Hydrologic stress of vegetation.		X		
h. Use by animals with hydrologic requirements.		X		
i. Plant community composition associated with water quality (i.e. plants tolerant of poor WQ).		X		
j. Quality fo standing water by observation(i.e. discoloration, turbidity).		X		
k. Water quality data for the type of community.			X	
l. Water depth, wave energy, and currents.		X		

w/o pres or current: 9 / 8

Comments: Evidence of water level indicators appear appropriate. No signs of inappropriate erosion. Appropriate understory. Vegetation zonation appropriate. Evidence of nutrient loading from adjacent properties.

.500(6)(c)Community Structure

X Vegetation

____ Benthic

____ Both

	Optimal	Moderate	Minimal	Not Present
a. Appropriate / desirable species	X			
b. Invasive / exotic plant species.	X			
c. Regeneration / recruitment of native species.	X			
d. Age / size distribution.	X			
e. Complexity of coarse wooody vegetation (snags, dens, cavities, etc).		X		
f. Plants' condition	X			
g. Land management practices		X		
h. Topographic features (refugia, channels, hummocks)		X		
i. Submerged vegetation (only score if present)				N/A
j. Upland assessment area				N/A

w/o pres or current: 9 / 8

Comments: Diverse community of native vegetation. Invasive exotic vegetation present. Evidence of recruitment. Likely provides foraging habitat for waterfowl and other water dependant species.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	0.80
with	0.67

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = 0.13 x 12.12 = 1.58

Delta = [with-current]
0.13

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART II – Quantification of Assessment Area (impact or mitigation)

(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number:	Assessment Area Name or Number:
SR 7 - Okeechobee Blvd to Northlake Blvd		FLUCFCS 6250
Impact or Mitigation	Assessment conducted by:	Assessment date:
Direct Impact	Scheda Ecologlocal Associates	June 2008; May 2010

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

	Optimal	Moderate	Minimal	Not Present
a. Quality and quantity of habitat support outside of AA.		X		
b. Invasive plant species.		X		
c. Wildlife access to and from AA (proximity and barriers).		X		
d. Downstream benefits provided to fish and wildlife.	X			
e. Adverse impacts to wildlife in AA from land uses outside of AA.		X		
f. Hydrologic connectivity (impediments and flow restrictions).	X			
g. Dependency of downstream habitats on quality or quantity of discharges.		X		
h. Protection of wetland functions provived by uplands (upland AAs only).				N/A

w/o pres or current: 8 | 0

Comments: Adjacent to the Pond Cypress Natural Area and Grassy Waters Preserve. Invasive exotics plant species are primarily limited to adjacent uplands and property limits. Roadways and fences limit access to wildlife to the west.

.500(6)(b)Water Environment (n/a for uplands)

	Optimal	Moderate	Minimal	Not Present
a. Appropriateness of water levels and flows.		X		
b. Reliability of water level indicators.	X			
c. Appropriatness of soil moisture.	X			
d. Flow rates / points of discharge.		X		
e. Fire frequency / severity.				X
f. Type of vegetation.	X			
g. Hydrologic stress of vegetation.		X		
h. Use by animals with hydrologic requirements.		X		
i. Plant community composition associated with water quality (i.e. plants tolerant of poor WQ).		X		
j. Quality fo standing water by observation (i.e. discoloration, turbidity).		X		
k. Water quality data for the type of community.			X	
l. Water depth, wave energy, and currents.		X		

w/o pres or current: 9 | 0

Comments: Evidence of water level indicators appear appropriate. No signs of inappropriate erosion. Appropriate understory. Vegetation zonation appropriate.

.500(6)(c)Community Structure

_X_ Vegetation

_____ Benthic

_____ Both

	Optimal	Moderate	Minimal	Not Present
a. Appropriate / desirable species	X			
b. Invasive / exotic plant species.	X			
c. Regeneration / recruitment of native species.	X			
d. Age / size distribution.	X			
e. Complexity of coarse wooody vegetation (snags, dens, cavities, etc).	X			
f. Plants' condition	X			
g. Land management practices		X		
h. Topographic features (refugia, channels, hummocks)		X		
i. Submerged vegetation (only score if present)				N/A
j. Upland assessment area				N/A

w/o pres or current: 9 | 0

Comments: Diverse community of native vegetation. No invasive exotic vegetation present. Evidence of recruitment. Likely provides foraging, nesting, and refuge habitat for waterfowl and other other dependant species.

Score = sum of above scores/30 (if uplands, divide by 20)

current or w/o pres: 0.83 | 0.00

If preservation as mitigation,

Preservation adjustment factor =

Adjusted mitigation delta =

For impact assessment areas

FL = delta x acres = 0.83 x 41.33 = **34.30**

Delta = [with-current]: **0.83**

If mitigation

Time lag (t-factor) =

Risk factor =

For mitigation assessment areas

RFG = delta/(t-factor x risk) =

PART II – Quantification of Assessment Area (Impact or mitigation)

(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number:	Assessment Area Name or Number:
SR 7 - Okeechobee Blvd to Northlake Blvd		FLUCFCS 6250
Impact or Mitigation	Assessment conducted by:	Assessment date:
Secondary Impact - 0-50 ft	Scheda Ecologiocal Associates	June 2008; May 2010

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	Optimal	Moderate	Minimal	Not Present
a. Quality and quantity of habitat support outside of AA.		X		
b. Invasive plant species.		X		
c. Wildlife access to and from AA (proximity and barriers).		X		
d. Downstream benefits provided to fish and wildlife.	X			
e. Adverse impacts to wildlife in AA from land uses outside of AA.		X		
f. Hydrologic connectivity (impediments and flow restrictions).	X			
g. Dependency of downstream habitats on quality or quantity of discharges.		X		
h. Protection of wetland functions provived by uplands (upland AAs only).				N/A

w/o pres or current: 8 | 6 | 6

Comments: Adjacent to the Pond Cypress Natural Area and Grassy Waters Preserve. Invasive exotics plant species are primarily limited to adjacent uplands and property limits. Roadways and fences limit access to wildlife to the west.

.500(6)(b)Water Environment (n/a for uplands)	Optimal	Moderate	Minimal	Not Present
a. Appropriateness of water levels and flows.		X		
b. Reliability of water level indicators.	X			
c. Appropriatness of soil moisture.	X			
d. Flow rates / points of discharge.		X		
e. Fire frequency / severity.				X
f. Type of vegetation.	X			
g. Hydrologic stress of vegetation.		X		
h. Use by animals with hydrologic requirements.		X		
i. Plant community composition associated with water quality (i.e. plants tolerant of poor WQ).		X		
j. Quality fo standing water by observation(i.e. discoloration, turbidity).		X		
k. Water quality data for the type of community.			X	
l. Water depth, wave energy, and currents.		X		

w/o pres or current: 9 | [redacted] | 8

Comments: Evidence of water level indicators appear appropriate. No signs of inappropriate erosion. Appropriate understory. Vegetation zonation appropriate.

.500(6)(c)Community Structure	Optimal	Moderate	Minimal	Not Present
a. Appropriate / desirable species	X			
b. Invasive / exotic plant species.	X			
c. Regeneration / recruitment of native species.	X			
d. Age / size distribution.	X			
e. Complexity of coarse wooody vegetation (snags, dens, cavities, etc).	X			
f. Plants' condition	X			
g. Land management practices		X		
h. Topographic features (refugia, channels, hummocks)		X		
i. Submerged vegetation (only score if present)				N/A
j. Upland assessment area				N/A

_X_ Vegetation
_____ Benthic
_____ Both

w/o pres or current: 9 | ok | 7

Comments: Diverse community of native vegetation. No invasive exotic vegetation present. Evidence of recruitment. Likely provides foraging, nesting, and refuge habitat for waterfowl and other water dependant species.

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	0.83
	0.70

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = 0.13 x 7.491 = 0.97

Delta = [with-current]
0.13

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART II – Quantification of Assessment Area (impact or mitigation)

(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	Application Number:	Assessment Area Name or Number:
SR 7 - Okeechobee Blvd to Northlake Blvd		FLUCFCS 5100
Impact or Mitigation	Assessment conducted by:	Assessment date:
Direct Impact	Scheda Ecologlocal Associates	June 2008; May 2010

Scoring Guidance	Optimal (10)	Moderate (7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support

	Optimal	Moderate	Minimal	Not Present
a. Quality and quantity of habitat support outside of AA.		X		
b. Invasive plant species.		X		
c. Wildlife access to and from AA (proximity and barriers).		X		
d. Downstream benefits provided to fish and wildlife.	X			
e. Adverse impacts to wildlife in AA from land uses outside of AA.		X		
f. Hydrologic connectivity (impediments and flow restrictions).	X			
g. Dependency of downstream habitats on quality or quantity of discharges.		X		
h. Protection of wetland functions provived by uplands (upland AAs only).				N/A

Comments: Adjacent to the Pond Cypress Natural Area and Grassy Waters Preserve. Invasive exotics plant species are primarily limited to adjacent uplands and property limits. Roadways and fences limit access to wildlife to the west.

w/o pres or current	
8/7	0

.500(6)(b)Water Environment (n/a for uplands)

	Optimal	Moderate	Minimal	Not Present
a. Appropriateness of water levels and flows.		X		
b. Reliability of water level indicators.		X		
c. Appropriatness of soil moisture.	X			
d. Flow rates / points of discharge.		X		
e. Fire frequency / severity.				X
f. Type of vegetation.		X		
g. Hydrologic stress of vegetation.		X		
h. Use by animals with hydrologic requirements.		X		
i. Plant community composition associated with water quality (i.e. plants tolerant of poor WQ).		X		
j. Quality fo standing water by observation(i.e. discoloration, turbidity).		X		
k. Water quality data for the type of community.			X	
l. Water depth, wave energy, and currents.		X		

Comments: In some cases water elevations maintained by control structures. Evidence of regular vegetation removal and pruning. Shoreline stabilized by crushed rock and fill material. Observed water dependent species (turtles, fish, and wading birds). Input of stormwater from adjacent developments and roadways.

w/o pres or current	
7 8	0

.500(6)(c)Community Structure

X Vegetation

____ Benthic

X Both

	Optimal	Moderate	Minimal	Not Present
a. Appropriate / desirable species		X		
b. Invasive / exotic plant species.		X		
c. Regeneration / recruitment of native species.		X		
d. Age / size distribution.		X		
e. Complexity of coarse wooody vegetation (snags, dens, cavities, etc).			X	
f. Plants' condition		X		
g. Land management practices			X	
h. Topographic features (refugia, channels, hummocks)		X		
i. Submerged vegetation (only score if present)		X		
j. Upland assessment area				N/A

Comments: Aquatic vegetation present; minimal littoral shelf. Invasive exotic vegetation present. Little evidence of native recruitment. Likely provides foraging habitat for waterfowl and other water dependant species.

w/o pres or current	
7 8	0

Score = sum of above scores/30 (if uplands, divide by 20)	
current or w/o pres	
0.73	0.00

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres = 0.73 x 13.72 = 10.02

Delta = [with-current]
0.73

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =